GJO-2002-369-TAC GJO-GWADM 19.1-2 Rev. 8

UMTRA Ground Water Project LTSM Program Moab Project

FY 2003 Sampling Frequencies and Analyses

October 2002

UMTRA Ground Water Project LTSM Program Moab Project

FY 2003 Sampling Frequencies and Analyses

Sampling Frequencies for Locations at Individual UMTRA, LTSM, and Moab Sites

Sampling Frequencies for Locations at Ambrosia Lake, New Mexico

Wells	Quarterly	Semiannually	Annually	Triennially	Not Sampled	Notes			
LTSM Prog	LTSM Program Monitor Wells								
675						Sampled every 3 years by a			
675				^		subcontrator. Next in 11/2004 Sampled every 3 years by a			
678				Х		subcontrator. Next in 11/2004			

Sampling Frequencies for Locations at ARCO-Bluewater, New Mexico

Wells	Quarterly	Semiannually	Annually	Triennially	Not Sampled	Notes				
LTSM Pro	LTSM Program Monitor Wells									
E(M)			Χ			Sampled by a local subcontractor				
Y2(M)			X			Sampled by a local subcontractor				
F(M)			X			Sampled by a local subcontractor				
T(M)			X			Sampled by a local subcontractor				
X(M)			X			Sampled by a local subcontractor if standards exceeded at POC well. See LTSP.				
L(SG)				Х		Sampled by a local subcontractor				
S(SG)				Х		Sampled by a local subcontractor				
OBS-3				Х		Sampled by a local subcontractor				
1(SG)				X		Sampled by a local subcontractor if standards exceeded at POC well. See LTSP.				

Sampling Frequencies for Locations at Burrell, Pennsylvania

Wells	Quarterly	Semiannually	Annually	Biennially	Every 5 Years	Notes				
LTSM Pro	LTSM Program Monitor Wells									
420					X	Next in October 2006				
422					X	Next in October 2006				
423					Х	Next in October 2006				
424					Х	Next in October 2006				
520					X	Next in October 2006				
522					X	Next in October 2006				
523					X	Next in October 2006				
524					X	Next in October 2006				
LTSM Pro	LTSM Program Surface Locations									
611					X	SEEP on cell; next in October 2006				
612					Х	SEEP on cell; next in October 2006				

Sampling Frequencies for Locations at Canonsburg, Pennsylvania

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes				
LTSM Pro	LTSM Program Monitor Wells									
406A			Χ			Replaces destroyed well 406				
410			Χ							
412			Χ							
413			Χ							
414A			Χ							
424			X							
504					X	WL only				
505					X	WL only				
LTSM Pro	gram Surfa	ace Locations								
601			Х			_				
602			Х			_				
603			Χ							

Sampling conducted in October

Sampling Frequencies for Locations at Durango, Colorado

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Ground W	/ater Projec	t Monitor Wells				
DUR01 Mil	ll Tailings					
612			Χ			
617			Χ			
630			Χ			
631			Χ			
633			Χ			
634			Χ			
635			Χ			
DUR02 Ra	affinate Pond	1				
598			Χ			
607			Χ			
879			Χ			
880			Χ			
884			Χ			
		t Surface Locati	ons			
DUR01 Mil	ll Tailings					
584			X			
586			Χ			
652			X			RIVER
691			X			RIVER
DUR02 Ra	affinate Pond	1				
588			X			
654			X			RIVER
656			Χ			
	<mark>gram Mon</mark>	itor Wells				
	do Canyon			1	T	
605			X			
607			Χ			POC WELL
608			Χ			II .
612			X			II .
618			X			"; supplements 608
621			Х			"
623			X			BACKGROUND
MW-1					X	Download datalogger
NVP					Х	Download datalogger
P7					X	Download datalogger

Sampling conducted in June

Sampling Frequencies for Locations at Falls City, Texas

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes				
LTSM P	TSM Program Monitor Wells									
709		Х								
858		X								
862			Χ			In April				
880		Х								
886			Χ			In April				
891			Χ			In April				
906		Х				Download data logger				
908		Х								
916		Х								
921		Х								
924			Х			In April				
963			Х			In April				

Sampling conducted in April and October

Sampling Frequencies for Locations at Grand Junction Mill Site

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes				
LTSM P	LTSM Program Monitor Wells									
590		Х								
745		Х								
1001		Х								
1014		Х								
LTSM P	<mark>rogram Sur</mark>	face Location	S							
423		X								
427		X	•							

Sampling conducted in January and June

Sampling Frequencies for Locations at Grand Junction Disposal Cell

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
LTSM Pr	ogram Mon	itor Wells				
731		Х				
732		Х				
733		Х				

Data loggers are downloaded by LTSM Program monthly. Sampling conducted in February and August

Sampling Frequencies for Locations at Grand Junction Office Facility

Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes					
LTSM Program Monitor Wells										
		Χ								
		Χ								
		Χ								
		Χ								
		Х								
		Х								
		Х								
		Х								
ogram Surf	ace Locations	5								
		Χ								
		Χ								
		Χ								
		.,								
		Х								
		Υ								
	ogram Moi	ogram Monitor Wells	ogram Monitor Wells X X X X X X X X X X X X X	ogram Monitor Wells X X X X X X X X X X Ogram Surface Locations X X X X X X X X X X X X X	ogram Monitor Wells X X X X X X X X X X Ogram Surface Locations X X X X X X X X X X X X X					

Sampling conducted in January

Sampling Frequencies for Locations at Green River, Utah

Wells	Quarterly	Semiannually	Annually	Riennially	Not Sampled	Notes
	Vater Project	ct Monitor Wells	Aillidally	Dicilliany	Hot Gampica	140103
174		Je morneor Wone	Х			
175			X			
176			X			
177			X			
178			X			
179			X			DATA LOGGER
180			X			DATALOGGER
181			X			
182			X			
183			X			
184			X			
185			X			
186			X			
187			X			
188			X			
189			X			
190			X			
191			X			
193			X			
194			X			
561			X			
582			X			
583			X			
584			X			
585			X			
588			<u>X</u>			
707			X			
806			<u>X</u>			
810			X			
811			X			
817			X			
	Votor Projec	t Surface Locati				
526	Valer Projec	Surface Locali		Ι		
709			X			
709			X			
711			X			
718	-		X			
720			X			
801			X			
802		:40 × 14/0//-	Х			
	ogram Mon	itor weils		I I	I	D.T. 1 00055
171	X					DATA LOGGER
172	Х					DATA LOGGER
173	Х					DATA LOGGER
813	Х					

UGW sampling conducted in June

Sampling Frequencies for Locations at Gunnison, Colorado

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Ground W	Vater Projec	ct Monitor Wells				
GUN01						
006			Х			
012			Х			
013			Х			DATA LOGGER
106			Х			
112			Х			
113			Χ			DATA LOGGER
126			Χ			Sample before flood irrigation end of Apr
127			Χ			Sample before flood irrigation end of Apr
160			Χ			
161			Χ			DATA LOGGER
183			Х			
188			Х			DATA LOGGER
189			Χ			DATA LOGGER
Ground W	/ater Projec	t Surface Locati	ons			
777			Χ			
780			Χ			
792			Χ			
795			Χ			
Ground W	/ater Projec	t Domestic Well	ls			
468			Χ			
469			Χ			
665			Х			
667			Х			
680			Х			
683			Х			
685			Χ			

UGW sampling needs to be conducted in April before flood irrigation starts

Sampling Frequencies for Locations at Gunnison, Colorado

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes				
LTSM Pro	LTSM Program Monitor Wells									
GUN08										
609			X after 5/15			BKGD; next in 2006				
630					X	WLs ONLY; next in 2006				
634					X	WLs ONLY; next in 2006				
663					X	WLs ONLY; next in 2006				
709					X	WLs ONLY; next in 2006				
710					X	WLs ONLY; next in 2006				
712					X	WLs ONLY; next in 2006				
714					X	WLs ONLY; next in 2006				
715					X	WLs ONLY; next in 2006				
716			X after 5/15			BKGD; next in 2006				
720			X after 5/15			POC; next in 2006				
721			X after 5/15			POC; next in 2006				
722			X after 5/15			POC; next in 2006				
723			X after 5/15			POC; next in 2006				
724			X after 5/15			POC; next in 2006				
725			X after 5/15			POC; next in 2006				

LTSM sampling at the disposal cell must not be conducted before May 15th due to CDOW requirements regarding access to this site during Sage Grouse mating.

Sampling Frequencies for Locations at Hallam, Nebraska

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
LTSM Prog	LTSM Program Monitor Wells								
OBS1A			Х						
OBS1B			Х						
OBS2A			Х						
OBS2B			Х						
OBS2B2			Х						
OBS2C2			Х						
OBS3A			Х						
OBS3B			Х						
OBS4A			X						
OBS4B			X						
OBS4C			X						
OBS5A			X						
OBS5B			X						
OBS6A					Х	Water level; micropurge if possible			
OBS6B					Х	Water level; micropurge if possible			
OBS7B			Χ						
OBS7C			Χ						
OBS8B			Χ						
OBS8C			Χ						

Sampling conducted in June

Sampling Frequencies for Locations at Lakeview, Oregon

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Ground V		ct Monitor Wells				
501					Х	Every 2 years
503					Х	,
504					Х	
505					Х	
506					Х	
507					Х	
508					Х	
509					Х	
510					Х	
518					Х	
523					Х	
524					Х	
540					Х	
541					Х	
Ground V	Vater Projec	t Private Wells				
533					Х	
534					Х	
535					Х	
536					Х	
537					X	
538					X	
542					Х	
543					X	
544					X	
545					X	
546					X	
547					X	
548					X	
549					X	
550					X	
557					X	Fairgrounds well
558					X	Spigot water for city
559					X	Best Western tap
560					X	Dorothy Allin well
	/ater Projec	t Surface Location	ons		1	
605					X	
607					X	
608					Х	
609					X	
622]				X	

Sampling Frequencies for Locations at Lakeview, Oregon

Wells	Quarterly	Semiannually	Annually	Biennially	Every 5 years	Notes				
LTSM Pro	LTSM Program Monitor Wells									
515					X	Every 5 years; next in 3/04				
602					X	Every 5 years; next in 3/04				
603					X	Every 5 years; next in 3/04				
604					X	Every 5 years; next in 3/04				
605					X	Every 5 years; next in 3/04				
606					X	Every 5 years; next in 3/04				
607					X	Every 5 years; next in 3/04				
608					X	Every 5 years; next in 3/04				
609		-	•		X	Every 5 years; next in 3/04				

Sampling conducted in March

Sampling Frequencies for Locations at L-BAR, New Mexico

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
LTSM Program Monitor Wells									
MW-1A					Х				
MW-17B					Х				
MW-29A					Х				
MW-61					Х				
MW-62					Х				
MW-63					Х				
MW-69					Х				
MW-72					Х				
MW-81					Х				
						Only if notable seepage is observed in MW-62, -62, -63, or if ACL is exceeded			
MW-100					X	in POC well.			

Not transferred yet to LTSM.

Sampling Frequencies for Locations at Lowman, Idaho

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
LTSM Prog	LTSM Program Monitor Wells								
548			Χ			Poss. Cross gradient			
549			Χ			Poss. Cross gradient			
575			Χ			Poss. Cross gradient			
580			Χ			Poss. Cross gradient			
583			Χ			Upgradient			
641			Χ			Upgradient			
LTSM Prog	LTSM Program Surface Locations								
561			X			SEEP			

Sampling conducted in July

Sampling Frequencies for Locations at Maybell, Colorado

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
LTSM Pro	gram Mon	itor Wells				
601					X	Download data logger; WLs
676					X	Download data logger; WLs
695					X	Download data logger; WLs
696					X	Download data logger; WLs

Sampling Frequencies for Locations at Mexican Hat, Utah

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
LTSM Pro	LTSM Program Surface Locations								
248			Χ			MEASURE FLOW RATES			
251			Χ			п			
254			Χ			н			
261			Х			н			
264			X			Replaced 249 "			
922			Χ			п			

Sampling conducted in February

Sampling Frequencies for Locations at Moab, Utah

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Monitor We	ells					
400					X	Data logger; only
401					X	Water level only
402					X	Water level only
403					X	Water level only
404					X	Water level only
405					X	Water level only
406					X	Water level; data logger
407					X	Water level only
408					X	Water level only
409					X	Water level only
410	X					
411	X					
412	Х					
413	X					
414	X					
430	X					
431	X					
432	X					
433	X					
434	X					
435	X					
436	X					
437	X					Vibrating wire piezometer location #452
438	X					
439	X					Vibrating wire piezometer location #451
440	X					
442	X					
443	X					
444	X					
445	X					
AMM-1	X					
AMM-2	X					
AMM-3	X					
ATP-3					X	Water level only
MW-1-R					X	Water level only
MW-3	X					
NE-MILL					X	Water level only
OW-1					X	Water level only
OW-2					X	Water level only
OW-3					Х	Water level only
OW-4					Х	Water level only
PW-1					Х	Water level only
PW-10	X					
PW-11					Х	Water level only
PW-12					Х	Water level only
PW-13	Х					
PW-4					Х	Water level only
PW-4-0B-A					Х	Water level only
PW-4-0B-B					Х	Water level only
PW-5					Х	Water level only

Sampling Frequencies for Locations at Moab, Utah

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Monitor We	ells					
PW-6					Χ	Water level only
PW-7					Х	Water level only
PW-8	Х					,
PW-9					Х	Water level only
RW-01	Х					,
SMI-MW01					Х	Water level; data logger
SMI-PW01					X	Water level; data logger
SMI-PW02					X	Water level; data logger
SMI-PW03					X	Water level; data logger
TP-01	Χ					Trater level, data legger
TP-02	X					
TP-06					Х	Water level only
TP-07	Χ					vater level of hy
TP-08	X					
TP-09	X					
TP-11	Λ				Х	Water level only
TP-17					X	Water level only
TP-18					X	Water level only
TP-10					X	Water level only
TP-19					X	,
					X	Water level only
TP-21 Piezometer				<u> </u>	X	Water level only
A-1	S	I		I	X	Water level only
ATP-1-D					X	Water level only
ATP-1-ID					X	Water level only
ATP-1-IS					X	Water level only
ATP-1-S					X	Water level only
ATP-2-D					X	Water level only
ATP-2-S	Х					Trate: level emy
B-16	, ,				X	Water level only
B-28					X	Water level only
SMI-PZ1D					Х	Data logger only
SMI-PZ1D2					Х	Water level only
SMI-PZ1M					Χ	Water level; data logger
SMI-PZ1S					X	Water level; data logger
SMI-PZ2D					X	Water level; data logger
SMI-PZ2M1					X	Water level; data logger
SMI-PZ2M2					X	Water level; data logger
SMI-PZ3S	X					Data logger
SMI-PZ3M	X					Data logger
SMI-PZ3D2	X					Data logger
TH-25					X	Water level only

Sampling Frequencies for Locations at Moab, Utah

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Surface Lo	cations					
CR1	Х					Most upgradient point
CR2	X					Sample near shore
						In main channel out from CR2 at
CR2-001	Χ					bottom
CR3	X					Sample near shore
						In main channel out from CR3 at
CR3-001	X					bottom
CR4	X					
CR5	Х					
CRA	X					
CR2B	X					Sample near shore
						In main channel out from CRB
CR2B-001	Χ					at bottom
CRC	X					
CRD	Х					
CRE	Х					
201	Х					Most downgradient point

Sampling Conducted in December, March, June, and September

Sampling Frequencies for Locations at Monument Valley, Arizona

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
Ground V	Ground Water Project Monitor Wells								
400					X				
402					X				
403					X				
602					X				
604					X				
606					X				
619					X				
655					X				
656					X				
657					X				
662					X				
669					X				
760					X				
761					X				
762					X				
764					X				
765					X				
767					X				
768					X				
770					X				
771					X				
772					X				
774					X				
775					X				
776					X				
777					X				
Ground V	Vater Projec	ct Private Wells							
200					X				
201					X	IHS water supply well			
625					X				
640					X				

Sampling conducted in August

Sampling Frequencies for Locations at Naturita, Colorado

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
		ct Monitor Wells		1 2 10 1111111111	in or our production	11000
547		X				
548		X				
700		X				
701		X				
NAT01-1		X				
NAT02		X				
NAT03		X				
NAT04-1		X				
NAT06-1		X				
NAT08		X				
NAT11		Х				
NAT15-1		Х				
NAT16-1		Х				
NAT19		Х				
NAT20		Х				
NAT23		Х				
NAT24		Х				
NAT25		Х				
NAT26		Х				
NAT27-1		Х				
NAT30-1		Х				
MAU03		Х				
MAU04		Х				
MAU05		Х				
MAU06		Х				
MAU07		X				
MAU08		X				
DM1		X				
Ground V	Vater Projec	ct Surface Locati	ons			
531		X				
556		X				
560		X				
561		X				
567		X				
SM2		X				
SM4		X				
	ogram Mon	itor Wells				
NAT14					T	
BR95-1				Even year		Sample in November 2004
BR95-2				Even year		Sample in November 2004
BR95-3				Even year		Sample in November 2004

UGW sampling conducted in January and July

LTSM sampling conducted in November

Sampling Frequencies for Locations at Parkersburg, West Virginia

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
LTSM Prog	gram Monite	or Wells				
MW-1					X	Water levels only; next sampling 10/03
MW-2					X	Water levels only; next sampling 10/03
MW-3					X	Water levels only; next sampling 10/03
MW-4					X	Water levels only; next sampling 10/03
MW-5				X		Next sampling 10/03
MW-6				Х		Next sampling 10/03

Sampling conducted in October

Sampling Frequencies for Locations at Rifle, Colorado

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
		ct Monitor Wells		1	111111111111111111111111111111111111111	
New Rifle						
169			Х			
170			X			Mo, NO ₃ , and U ONLY
172			Х			Mo, NO ₃ , and U ONLY
173			X			1.10, 1, 0, 3, and 0 01, 21
179			X			NO ₃ , and U ONLY
195			X			1103, and 0 01121
201			X			
210			X			Mo, NO ₃ , and U ONLY
215			X			1710, 1703, and 8 81,21
216			X			
218			X			
590			X			
635			X			
657			X			
658			X			
659			X			
855			X			
864			X			
Old Rifle			^			
292	1		Х	1		
304			<u>^</u>			
305			X			
			X			
309			X			
310 655			X			
656			^ X			
	Notor Project	ct Private Wells	^			
New Rifle		it Private Wells				
442	I		Х	I	I	Johnson comple of wellhood
446			X			Johnson - sample at wellhead Johnson - after the RO unit
617			X			Ideal Cement before RO unit
685			X			
	Vater Drains	4 Conford Locati				Ideal Cement after RO unit
		t Surface Locati	Oris			
New Rifle	1			1	I	Dond
320			X			Pond
322	 		X			
452	 		X			
453	1		X			
575			Χ			
Old Rifle	1	I		1	I	T
396			X			
398	1		Х			
538	1		X			
741			Х			
	<mark>ogram Disp</mark> o	osal Cell				
RFL08	Т			T		I
MW-2	ļ				X	WL only - MONTHLY
MW-3					X	WL only - MONTHLY

Sampling conducted in June

Sampling Frequencies for Locations at Riverton, Wyoming

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
Ground W	Ground Water Project Monitor Wells								
705			Χ						
707			Χ			Data logger			
709					X	Data logger			
710			Χ						
716			Χ			Data logger			
717			Χ						
718			X						
719			X						
722			X						
723			X						
731			X						
735			Χ						
789					X	Data logger			
Ground Water Project Surface Locations									
747			Χ						
749			Χ						
794			Х						
796			Χ						

Sampling conducted in May

Sampling Frequencies for Locations at Salt Lake City, Utah

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
LTSM Pro	LTSM Program Monitor Wells								
134			Χ			Shallow aquifer; downgradient			
143					X	Deep aquifer; WL only			
144			Χ			Shallow aquifer; onsite			
145					X	Deep aquifer; WL only			
LTSM Pro	gram Surfa	ce Locations							
146			Χ			Open ditch onsite			
148			Χ			Pond west of CVWRF			
149			Χ			Pond southwest of CVWRF			
150			X			Pond south of CVWRF			
151			X			Pond south of CVWRF			
181			Х			Mill Creek - upstream			
182			Х			Mill Creek - downstream			

Sampling conducted in December

Sampling Frequencies for Locations at Sherwood, WA

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
LTSM Prog	LTSM Program Monitor Wells								
MW-2B			Χ						
MW-4			Χ						
MW-10			Χ						
P1					Х	Water level only			
P2					Х	Water level only			
P3					Х	Water level only			
P4					X	Water level only			

Sampling conducted in July

Sampling Frequencies for Locations at Shiprock, New Mexico

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
		ct Monitor Wells		Biominany	not campion	110100
SHP01			<u> </u>			
608		Х				Low flow
614		Х				Low flow
615		Х				Low flow
617					Х	Data logger only
618		Х				Low flow
619		Х				Low flow
734		Х				Low flow
735		Х				Low flow
736		Х				Low flow
797		Х				Low flow
850		Х				Low flow
854		Х				Low flow
857					Х	Data logger only
SHP02						
602					Х	Data logger only
						Measure flow rate semiannually;
648				Odd year		sample biennially
728					X	WLs quarterly; data logger
730					X	Data logger only
731					Х	Data logger only
800					Х	Water levels only; in March
801					Х	Water levels only; in March
802					Х	Water levels only; in March
803					Х	Water levels only; in March
812		Х				Low flow; WLs quarterly
813		Х				Low flow; WLs quarterly
814					Х	WL quarterly only
815					Х	WL quarterly only
817		Х				Low flow
818					Х	WL quarterly only
826					Х	Data logger only
827					Х	Data logger only
830					Х	Data logger only
832		Х				Low flow
835		Х				Low flow
836		Х				Low flow
837					Х	Data logger only
838		Х				Low flow
839		Х				Low flow
841		Х				Low flow; data logger; WL quarterly

Sampling Frequencies for Locations at Shiprock, New Mexico

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
SHP02			-	-		
843					Х	Data logger only
846		Х				Low flow
847		Х				Low flow
848					Х	Data logger only
1007					Х	WL quarterly only
1057					Х	WL quarterly only
1060		Х				Low flow
1065					Х	WL only; Many Devils Wash
1066					Х	WL only; Many Devils Wash
1067					Х	WL only; Bob Lee Wash
1068					Х	WL only; Bob Lee Wash
1069					Х	WL only; Bob Lee Wash
Ground V	Vater Projec	t Surface Locati	ions			
SHP01						
655		Х				Drainage channel
887		Х				Distributary channel
897		Х				Just below mouth of Many Devils Wa
898		Х				San Juan River upgradient
940		Х				Just NE of 854, San Juan River
956		X				San Juan River at intake
						San Juan River about 1500' below
957		X				dist. Channel
						Distributary channel just below 1st
959		X				wash
1205		X				San Juan River E of well 853
SHP02	,				T	
425		Х				Escarpment Seep; flow rate
426		Х				Escarpment Seep; flow rate
662		Х				Lower Bob Lee Wash
786		X				Seep below US Hwy 666 bridge
884		Х				Irrigation return flow
						Upper Bob Lee Wash; water
885		X				level
886		Х				Many Devils Wash; water leve
889		Х				Many Devils Wash; water leve
933		Х				1st wash W of Highway 666
934		X				2nd wash W of Highway 666
936		X				Seep between 1st & 2nd washes
942		Х				Pond NW of 847
-						Helium lateral canal where water
958				Odd year		comes into canal at pump station

Sampling conducted in March and September

Sampling Frequencies for Locations at Slick Rock, Colorado

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes			
Ground V	Vater Projec	ct Monitor Wells							
Union Carbide									
317			X						
318			Χ						
319			Χ						
320			Χ						
324			Χ						
508			Χ						
510			Χ						
North Cor	ntinent								
303			Χ						
305			Χ						
307			Χ						
309			Χ						
311			Χ						
Ground W	<mark>/ater Projec</mark>	t Surface Locati	ons						
Union Car	rbide								
347			Χ						
349			Χ						
693			Χ						
694			Χ						
North Cor	ntinent								
692			Х						
696			Χ						

Sampling conducted in September

Sampling Frequencies for Locations at Tuba City, Arizona

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
		Monitor Wells				
251	_	Χ				
252		Х				
254		Х				
255		Х				
256		Х				
257		Х				
258					Х	Water level only
261			Х			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
262			X			
263			X			
264			X			
265			X			
266			X			
267		X	^			
268		X				
271		X				
		X				
683 684		X			 	
685		X				
686		X				
687		X				
688		X				
689		X				
690		X				
691		Х				
692		Х				
695		X				
901			Х			
902					X	Water level only
903		Χ				
904				Odd year		
905					Х	Water level only
906		X				
907					Х	Water level only
908		Х				
909		X				DATA LOGGER
910					Х	Water level only
911					Х	Water level only
912			Х			-
913			X			
914			Х			
915				Odd year		
916				Odd year		
917				Odd year		
918				, , , ,	Х	Water level only
919					X	Water level only
920				Odd year	1	
921				Odd year		
925				Odd year	Х	Water level only
926					X	Water level only
928					X	Water level only

Sampling Frequencies for Locations at Tuba City, Arizona

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
		Monitor Wells				
929		Х				
930		Х				
932		Х				
933					Х	Water level only
934		Х				DATA LOGGEŘ
935		Х				
936		Х				
938					Х	Water level only
939					Х	Water level only
940		Х				DATA LOGGER
941		Х				DATA LOGGER
942		Х				DATA LOGGER
943		Х				
945		Х				
946		Х				Dry well; NEEDS DATA LOGGER
947				Even year		Dry well; March 2002
948				-	Х	Water level only
968					Х	Water level only
970					Х	Water level only
971					Х	Water level only
972					X	Water level only
1003		Х				
1004		Х				
1005		Х				
1006		Х				
1007		Х				
1008		Х				
1101		Х				
1102		Х				
1103		Х				
1104		Х				
1105		Х				
1106		Х				
1107		Х				
1108		Х				
1109		Х				
1110		Х				
1111		X				
1112		X				
1113		Х				
1114		X				
1115		X				
1116		X				
1117		X				
1118		X				
1119		X				
1120		Х				
1121		Х				
1122		Х				
1123		Х				
1124		Х				
1125		Х				

Sampling Frequencies for Locations at Tuba City, Arizona

Wells	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Ground W	ater Project	Surface Locations	S			
759				Even year		In March 2002
778				Even year		In March 2002
965				Even year		In March 2002
969				Odd year		In March 2003
1569		X				North evap pond
1570		X				South evap pond
1571		Х				Jimmy Spr West
1572		Х				Jimmy Spr East
1573		Х				West pipe Shonto Well
1574		Х				East pipe Shonto Well
1200		Х				N. sump leachate
1201		Х				S. sump leachate
1202		Х				Soft water feed tank
						Effluent from Ion Exchange
1203		X				Column
1204		X				Effluent from degassifier
1205		X				Distillate from evaporator
1206		Х				Brine from evaporator
						Regeneration waster (beginning of
1207		X				cycle)
1208		Х				Regeneration waster (end of cycle)

Sampling conducted in February and August

Constituent Sampling Breakdown for Individual UMTRA, LTSM, and Moab Sites

Site	Ambros	sia Lake	ARCO/B	luewater	Bui	rell	Canor	nsburg		Duran	70
	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface			Surface
Analyte	Water	Water	Water	Water	Water	Water	Water	Water	Ground	Water	Water
Approx. No. Samples/yr	0	0	0	0	0	0	6	3	12	7	7
Field Measurements	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	UGW	LTSM	UGW
Alkalinity	Χ				Χ	X	X	X	Х	Χ	Χ
Dissolved Oxygen											
Redox Potential	Χ				X	X	Х	X	Х	Χ	Χ
рН	Χ				X	X	Х	X	Х	Χ	Χ
Specific Conductance	X				X	Х	Х	X	Х	Χ	Χ
Turbidity	Х				Х		Х		Χ	Х	
Temperature	Х				Х	Х	Х	Х	Х	Х	Χ
Laboratory Measurements	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	UGW	LTSM	UGW
Aluminum											
Ammonium											
Antimony											
Arsenic											
Beryllium											
Bromide											
									612, 617,		
									630, 631, 633, 634, 635		
Cadmium									only		Х
Calcium					Х	Χ	Х	Х		Х	
Chloride					X	Х	Х	Х		Х	
Chromium											
Cobalt											
Copper											
Fluoride											
Gamma Spec											
Gross Alpha											
Gross Beta											
Iron					Х	Х				Х	
									612, 617,		
									630, 631, 633, 634, 635		
Lead					Χ	Х			only		
Lead-210											
Magnesium					Х	Х	Х	Х		Х	
									612, 617,		
									630, 631, 633, 634, 635		
Manganese					Χ	Х	Х	Х	only	Χ	
Molybdenum	Х				Х	Х	Х	Х	Х	Х	Х

FY 2003 10/29/2002

Site	Ambros	sia Lake	ARCO/B	luewater	Bui	rell	Canor	nsburg		Duran	go
	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface			Surface
Analyte	Water	Water	Water	Water	Water	Water	Water	Water	Ground	Water	Water
Laboratory Measurements											
(Continued)	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	UGW	LTSM	UGW
Nickel											
Nickel-63											
Nitrate	Χ				X	X					
PCBs			X								
Phosphate											
Polonium-210											
Potassium					Х	Х	Х	Х		Х	
Radium-226											
Radium-228											
Selenium	Х				Х	Х			Х	Х	Χ
Silica											
Sodium					Х	Х	Х	Х		Х	
Strontium											
									612, 617,		
									630, 631, 633, 634, 635		
Sulfate	X				X	X	X	X	only	Х	
Sulfide											
Thallium											
Thorium-230											
Tin											
Total Dissolved Solids			Х		Х	Х				Х	
Total Organic Carbon											
Uranium	Х				Х	Х	Х	Х	Х	Х	Х
Vanadium											
Zinc											
Total No. of Analytes	5	0	2	0	14	14	9	9	7	12	4

Note: All analyte samples are considered filtered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

Site	Falls	City	GJT-N	/lillsite	GRJ-Dis	posal Cell	GJO-Offi	ce Facility	Gre Ground Wat		River
Analyte	Ground Water	Surface Water	Ground Water	Surface Water	Ground Water	Surface Water	Ground Water	Surface Water	Ground	d Water	Surface Water
Approx No. Samples\yr	19	0	8	4	6	0	8	6	31	16	8
Field Measurements	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	UGW	LTSM	UGW
Alkalinity	Х		Х	Х	Х		Х		Х	Х	Х
Dissolved Oxygen											
Redox Potential	X		Х	Х	Х		Х	Х	Х	Х	Х
pH	X		Х	Х	Х		Х	Х	Х	Х	Х
Specific Conductance	Х		Х	Х	Х		Х	Х	Х	Х	Х
Turbidity	Х		Х		Х		Х		Х	Х	
Temperature	Х		Х	Х	Х		Х	Х	Х	Х	Х
Laboratory Measurements	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	UGW	LTSM	UGW
Aluminum	Χ										
Ammonium	X		X	X							
Antimony	Χ										
Arsenic	Χ						Х	X	X	Х	Х
Beryllium	Χ										
Bromide	Χ										
Cadmium	Χ								X	X	Χ
Calcium	Χ								X	X	Χ
Chloride	Χ						X	X	X	X	Χ
Chromium	Χ						Х	X			
Cobalt	Χ										
Copper	Χ										
Fluoride									X	X	Χ
Gamma Spec											
Gross Alpha	Χ						X	X	Х	Х	Χ
Gross Beta											
Iron	Χ										
Lead	Χ										
Lead-210									Х	Х	Χ
Magnesium	Х								Х	Х	Х
Manganese	Х						Х	Х	Х	Х	Х
Molybdenum	Χ		Х	X	X		Х	X	Х	Х	Х

FY 2003 10/30/2002

Site	Falls	s City	Grand .	Junction	GRJ-Dis	posal Cell	GJO-Offi	ce Facility		Green	River
Analyte	Ground Water	Surface Water	Ground Water	Surface Water	Ground Water	Surface Water	Ground Water	Surface Water	Ground	d Water	Surface Water
Laboratory Measurements											
(Continued)	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	UGW	LTSM	UGW
Nickel	X										
Nickel-63											
Nitrate	X				X		Х	X	Х	Х	X
PCBs					X						
Phosphate											
Polonium-210											
Potassium	Χ								Х	Х	Χ
Radium-226	Χ								Х	Х	Χ
Radium-228	Χ								Х	X	Χ
Selenium	Χ				Х		X	Х	Х	X	Х
Silica											
Sodium	Χ								Х	X	Х
Strontium									Х	Х	Х
Sulfate	Х				Х		Х	Х	Х	Х	Х
Sulfide	Х										
Thallium	Х										
Thorium-230									Х	Х	Х
Tin	Х										
Total Dissolved Solids	Х		Х	Х	Х		Х	Х	Х	Х	Х
Total Organic Carbon											
Uranium	Х		Х	Х	Х		Х	Х	Х	Х	Х
Uranium-234, -238											
Vanadium	Х				Х				Х	Х	Х
VOCs											
Zinc	Х										
Total No. of Analytes	33	0	4	4	8	0	11	11	22	22	22

Note: All analyte samples are considered filtered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include the field parameters.

FY 2003 10/30/2002

Site	Gunnison		Hallam			Lake	view	L-E	3ar	Lowman		
Analyte	Ground	d Water	Surface Water	Ground Water	Surface Water	Ground	d Water	Surface Water	Ground Water	Surface Water	Ground Water	Surface Water
Approx. No. Samples/yr.	20	0	4	17	0	0	0	0	0	0	6	1
Field Measurements	UGW	LTSM	UGW	LTSM	LTSM	UGW	LTSM	UGW	LTSM	LTSM	LTSM	LTSM
Alkalinity	X	X	X	Х		Х	X	X			Х	X
Dissolved Oxygen												
Redox Potential	X	X	X	Х		Х	X	X			Х	X
pH	X	X	X	Х		Χ	X	X	Х		Х	X
Specific Conductance		X	X	Х		Χ	X	X	Х		Х	X
Turbidity	X	X		Х		Χ	X				Х	
Temperature	X	X	X	Х		Χ	X	X			Х	X
Laboratory Measurements	UGW	LTSM	UGW	LTSM	LTSM	UGW	LTSM	UGW	LTSM	LTSM	LTSM	LTSM
Aluminum												
Ammonium												
Antimony											Х	X
Arsenic						Х	X	Х				
Boron						Х		Х				
Beryllium												
Bromide												
Cadmium							X					
Calcium						Х	Х	X			Х	X
Chloride						Х	Χ	Х	X		Х	X
Chromium												
Cobalt												
Copper												
Fluoride						Х		X				
Gamma Spec				Х								
Gross Alpha				Х								
Gross Beta				Х								
Iron						Х	Χ	Х			Х	X
Lead												
Lead-210												
Magnesium						Х	Χ	Х			Х	X
Manganese	Χ		X			Χ	Χ	X			Х	X
Molybdenum						Χ		X				

Site		Gunn	ison	Hal	lam		Lake	view	L-I	Bar	Low	man
	Gro	und	Surface	Ground	Surface	Gro	und	Surface	Ground	Surface	Ground	Surface
Analyte	Wa	ater	Water	Water	Water	Wa	iter	Water	Water	Water	Water	Water
Laboratory Measurements												
(Continued)	UGW	LTSM	UGW	LTSM	LTSM		LTSM	UGW	LTSM	LTSM	LTSM	LTSM
Nickel						X		X				
Nickel-63				X								
Nitrate									X			
PCBs												
Phosphate												
Polonium-210												
Potassium						X	X	X			X	X
Radium-226												
Radium-228												
Selenium									Х			
Silica							Х					
Sodium						Х	Х	Х			X	X
Strontium												
Sulfate	Х		Х			Х	Х	Х	Х		Х	X
Sulfide						Х		Х				
Thallium												
Thorium-230												
Tin												
Total Dissolved Solids	Х		Х			Х	Х	Х	Х		Х	Х
Total Organic Carbon						Х		Х				
Tritium				Х								
Uranium	Χ	Х	Х			Х	Х	Х	Х			
Uranium-234, -238												
Vanadium												
Zinc												
Total Analytes	4	1	4	5	0	17	13	17	6	0	10	10

Note: All analyte samples are considered filtered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include the field parameters.

Site	Mexic	an Hat	Monume	nt Valley		Nati	urita			Rifle	(2)		Rive	erton
	Ground	Surface	Ground	Surface	Gro	und		face	Gro	und		face	Ground	Surface
Analyte	Water	Water	Water	Water	Wa	iter	Wa	iter	Wa	iter	Wa	ter	Water	Water
Approx. No. Samples/yr	0	6	0	0	56	0	14	0	2	28	Ç	9	11	4
Field Measurements	LTSM	LTSM	UGW	UGW	UGW	LTSM	UGW	LTSM	UC	SW .	UG	SW .	UGW	UGW
Alkalinity	Χ	X	Х		X	Χ	Χ		2	X)	<	Χ	X
Dissolved Oxygen														
Redox Potential	Χ	X	Х		X	Χ	Χ		2	X)	<	Χ	X
рН	Χ	X	Х		X	Χ	Χ		2	X)	<	Χ	X
Specific Conductance	Х	Х	Х		Х	Χ	Χ			X)	<	Х	Х
Turbidity	Χ		Х		X				2	X			Χ	
Temperature	Χ	X	Х		X	Χ	Χ		2	X)	<	Χ	X
Laboratory Measuremen	LTSM	LTSM	UGW	UGW	UGW	LTSM	UGW	LTSM	RF0	RFN	RF0	RFN	UGW	UGW
Aluminum														
			606, 655, 656, 765, 770, 771,											
			772, 774, 777,											
Ammonium		Х	201							Х		Х		
Antimony														
Arsenic					Х	Х	Х			Х		Х	Х	Х
Barium														
Bromide														
Cadmium			201 only											
Calcium		Х	201 only											
Chloride		Х	Х											
Chromium														
Cobalt														
Copper														
Fluoride										Х		Х		
Gamma Spec														
Gross Alpha			201 only											
Gross Beta														
Iron														<u> </u>
Lead														<u> </u>
Lead-210			201 only											
Magnesium			201 only											<u> </u>
Manganese					X		X			X		X	X	X
Molybdenum		X			Χ	Χ	Χ			Χ		Χ	Χ	X

Site	Mexic	an Hat	Monume	nt Valley		Natu	urita			Rifle	(2)		Rive	erton
	Ground	Surface	Ground	Surface	Gro	ound	Sur	face	Gro	und	Sur	face	Ground	Surface
Analyte	Water	Water	Water	Water	Wa	ater	Wa	iter	Wa	iter	Wa	ter	Water	Water
Laboratory Measurements														
(Continued)	LTSM	LTSM	UGW	UGW	UGW	LTSM	UGW	LTSM	RF0	RFN	RF0	RFN	UGW	UGW
Nickel													X	X
Nickel-63														
Nitrate		X	X		Х		Χ			Χ		Х		
Nitrite														
PCBs														
Phosphate														
Polonium-210														
Potassium		Х	201 only											
Radium-226		Х	201 only											
Radium-228		Х	201 only											
Selenium			201 only		Χ		Χ		Χ	Χ	Χ	Χ		
Silica														
Sodium		Х	201 only											
Strontium			201 only											
Sulfate		Х	X		Χ		Χ						Χ	Х
Sulfide														
Thallium														
Thorium-230														
Tin														
Total Dissolved Solids		Х	201 only		Χ		Χ		Χ	Χ	Χ	Χ	Χ	Х
Total Hardness														
Total Suspended Solids														
			201, 619, 657,											
Uranium	<u> </u>	Х	774, 775, and 776 only		Х	Х	Х		Χ	Х	Х	Χ	Χ	Х
Uranium-234, -238	- 		770 01117											
Vanadium	- 	Х	201 only		Х		Χ		Χ	Х	Х	Χ		
Zinc	- 						Χ							
Total Analytes	0	13	18	0	9	3	10	0	4	10	4	10	7	7

Note: All samples are considered filtered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include field paramete

Site	Salt La	ke City	Sher	wood	Ship	rock	Slick	Rock	Tuba	City
	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface
Analyte	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Approx. No. Samples/yr	2	7	3	0	47	43	12	6	150	13
Field Measurements	LTSM	LTSM	LTSM	LTSM	UGW	UGW	UGW	UGW	UGW	UGW
Alkalinity	Χ		Х		Х	Х	Х	X	Χ	Х
Dissolved Oxygen										
Redox Potential	Χ		Х		Х	Х	Х	Х	Х	Х
pH	Х		Х		Х	Х	Х	Х	Х	Х
Specific Conductance	Х		Х		Х	Χ	Х	Х	Χ	Х
Turbidity	Х		Х		Х		Х	Х	Х	
Temperature	Х		Х		Х	Х	Х	Х	Х	Х
Laboratory Measurements	LTSM	LTSM	LTSM	LTSM	UGW	UGW	UGW	UGW	UGW	UGW
Aluminum										
Ammonium					Х	Х			Х	
Antimony										
Arsenic									Х	Х
Barium										
Beryllium										
Bromide										
BTEX							319			
										1569, 1570,
O - daring										1200, and
Cadmium					Х	V			X	1201 only
Calcium			Х		X	X			X	X
Chloride			^		^	^			^	^
Chromium										
Cobalt										
Copper										
Fluoride										
Gamma Spec					ļ					
Gross Alpha									Х	Х
Gross Beta									V	V
Iron									Х	X 1569, 1570,
										1200, and
Lead										1201 only
Lead-210										
Magnesium					Х	Х			Х	Х
Mana					· ·	V	318, 320, 508,		V	V
Manganese					Х	Х	510	694	Х	X 1569, 1570,
										1200, and
Mercury										1201 only
Madadad	ν.	V					317, 318, 320,		V	V
Molybdenum	X	Х			l		508, 510	694	Х	Х

Site	Salt La	ke City	Sher	wood	Ship	rock	Slick R	ock (2)	Tuba	City
	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface	Ground	Surface
Analyte	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Laboratory Measurements										
(Continued)	LTSM	LTSM	LTSM	LTSM	UGW	UGW	UGW	UGW	UGW	UGW
Nickel										
Nickel-63							318, 320, 324,	347 349 693		
Nitrate					Х	Х	508, 510	694	Χ	Х
Organics										
PCBs										
Phosphate										
Polonium-210										
Potassium					Х	Х			Χ	Χ
Radium-226							319			
Radium-228							319			
Radon-222										
							305, 307, 316, 320, 324, 508,	247 240 602		
Selenium					Х	Х	510	694	X	Х
Silica					Λ		0.0	001	X	
Sodium					Х	Х			X	Х
Strontium					X	X			X	X
Sulfate			Х		X	X			X	X
Sulfide						,				
Thallium										
Thorium-230										
Thorium-232										
Tin										
Total Dissolved Solids			Х						Х	Х
Total Organic Carbon										
Tritium										
							303, 305, 307,			
Uranium	Х					х	309, 311, 318, 320, 508, 510	Y all camples	v	
Uranium-234, -238	^	Х			Х	^	320, 306, 510	A all SampleS	Х	X
Vanadium							 			^
Variacium							 			
Zinc							 			
Total Analytes	2	2	3	0	12	12	8	5	18	20
Total Allalytes			J	U	14	14	U	J	10	20

Note: All samples are considered filtered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

Constituent Sampling Breakdown

Site	Parkersburg	
	Ground	Surface
Analyte	Water	Water
Approx. No. Samples/yr	0	0
Field Measurements	LTSM	LTSM
Alkalinity	Х	
Dissolved Oxygen		
Redox Potential	Х	
рН	Х	
Specific Conductance	Х	
Turbidity	Х	
Temperature	Х	
Laboratory Measurements	LTSM	LTSM
Aluminum		
Ammonium		
Antimony	Х	
Arsenic		
Barium	Х	
Beryllium	Х	
Bromide		
Cadmium	Х	
Calcium	Χ	
Chloride	Х	
Chromium	Х	
Cobalt		
Copper		
Fluoride		
Gross Alpha	Х	
Gross Beta	Х	
Hafnium	Χ	
Iron		
Lead	Χ	
Lead-210		
Magnesium	Χ	
Manganese		
Mercury	Χ	
Molybdenum		

Constituent Sampling Breakdown

Site	Parkersburg	
	Ground	Surface
Analyte	Water	Water
Laboratory Measurements		
(Continued)	LTSM	LTSM
Nickel	X	
Nitrate	X	
Nitrite	X	
Phosphate		
Polonium-210		
Potassium	Χ	
Radium-226	Х	
Radium-228	Х	
Selenium	Х	
Silica		
Sodium	Х	
Strontium		
Sulfate	Х	
Sulfide		
Thallium	Х	
Thiocyanate	Х	
Thorium-230		
Tin		
Total Dissolved Solids		
Total Organic Carbon		
Uranium	Χ	
Vanadium		
Zinc		
Zirconium	Х	
Total Analytes	26	0

Note: All samples are considered filtered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

Constituent Sampling Breakdown

Site	MOAB	
	Ground	Surface
Analyte	Water	Water
Approx No. Samples\yr	148	56
Field Measurements		
Alkalinity	Χ	X
Dissolved Oxygen		
Redox Potential	Χ	Х
рН	X X X X	X X X
Specific Conductance	Χ	Х
Turbidity	Χ	
Temperature	Χ	Х
Laboratory Measurements		
Aluminum		
Ammonium	Χ	Х
Antimony	Χ	Х
Arsenic	X X X	X X X
Barium	Χ	Х
Beryllium		
Bromide		
Cadmium	X X X	X
Calcium	Χ	X X
Chloride		Х
Chromium	Χ	Х
Cobalt		
Copper	Χ	Х
Fluoride		
Gamma Spec		
Gross Alpha	Χ	Х
Gross Beta	Χ	X
Iron	Χ	Х
Lead	Χ	Х
Lead-210	Χ	Х
Magnesium	Χ	Х
Manganese	Χ	Х
Mercury	X X X X X X X	X X X X X X X
Molybdenum	Χ	Х

Site	MOAB	
	Ground	Surface
Analyte	Water	Water
Laboratory Measurements		
(Continued)		1
Nickel	Х	Х
Nickel-63		
Nitrate	X	Х
PCBs		
Phosphate		
Polonium-210	Χ	Χ
Potassium	Χ	Χ
Radium-226	Χ	Χ
Radium-228	X X X	X X X X
Selenium	Χ	Χ
Silica		
Silver	Χ	Χ
Sodium	X X X	X X X
Strontium	Х	Х
Sulfate	Х	Х
Sulfide		
Thallium	Χ	Х
Thorium-230	Χ	Х
Tin		
Total Dissolved Solids	Χ	Χ
Total Organic Carbon		
Uranium	Χ	Χ
Uranium-234, -238		
Vanadium	Χ	Χ
All Appendix IX listed		
constituents		
VOCs		
Zinc	Х	Х
Total No. of Analytes	36	35

Note: All analyte samples are considered filtered unless stated otherwise. The total number of analytes does not include the field parameters.